

Exhibit P: Spurious Conducted Emissions

FCC ID: HN2PC24-11

Justification

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

Channels in Specified Band Investigated:

Low

Mid

High

Operating Modes Investigated:

Typical

Data Rates Investigated:

Maximum

Output Power Setting(s) Investigated:

Maximum

Power Input Settings Investigated:

5VDC

Frequency Range Investigated

Start Frequency

0MHz

Stop Frequency

25GHz

Software\Firmware Applied During Test

Exercise software

FCCTST24.BIN

Version

Unknown

Description

The system was tested using the FCCTST24.BIN software to exercise the functions of the device during the testing.

Equipment Modifications

No EMI suppression devices were added or modified. The EUT was tested as delivered.

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
EUT-PCMCIA Card	INTERMEC	P24-11-FC/R	02UT34371446
Extender Card	Swart Interconnect	EXT-PCM-68-SM3	060501-212
Host Device	INTERMEC	2435	27300200205
5VDC Adapter	INTERMEC	0-302029-01	N/A

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
5VDC power	No	1.9	PA	5VDC Adapter	EUT

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

Measurement Equipment

Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	03/08/2001	24 mo


Test Description

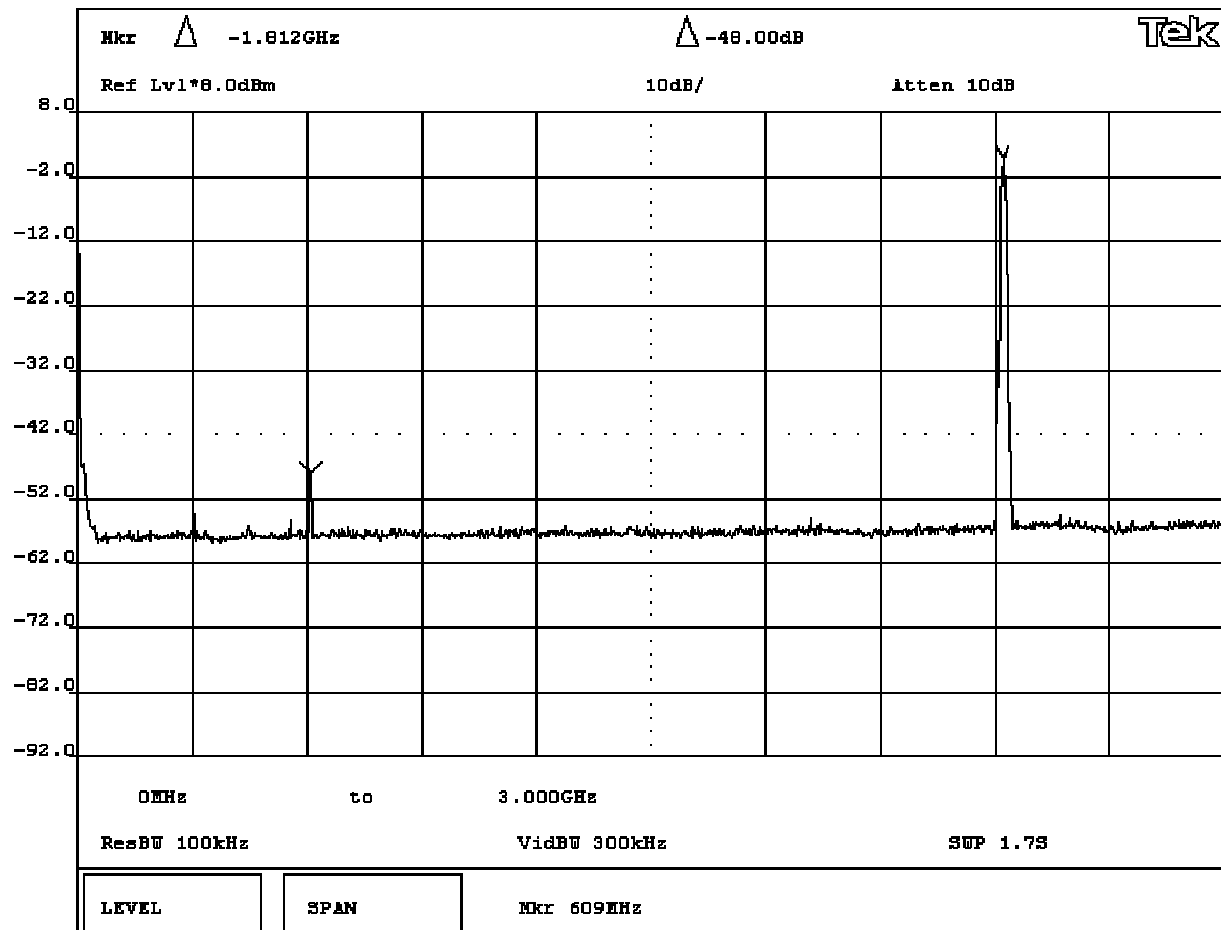
Requirement: Per 47 CFR 15.247(c), in any 100 kHz bandwidth outside the authorized band, the maximum level of radio frequency power must be at least 20dB down from the highest emission level within the authorized band. The measurement is made with the spectrum analyzer's resolution bandwidth set to 100 kHz, and the video bandwidth set to greater than or equal to the resolution bandwidth.


Configuration: The spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using direct sequence modulation. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

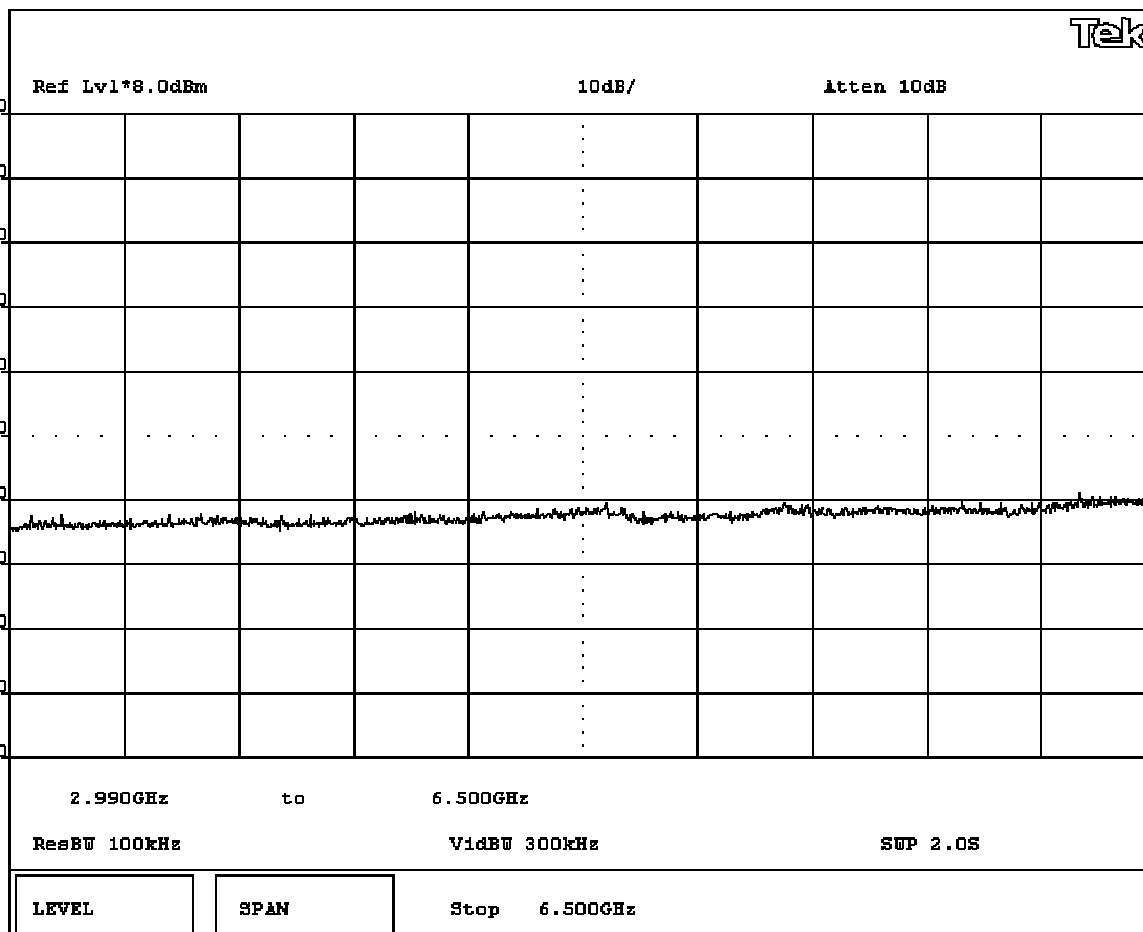
Completed by:



NORTHWEST EMC				EMISSIONS DATA SHEET				Transmitters Rev dfl1/13/02	
EUT: PC24-11-FC/R				Work Order: INMC0036					
Serial Number: 02UT34371446				Date: 11/15/02					
Customer: INTERMEC Corporation				Temperature: 22 °C					
Attendees: None				Humidity: 45%					
Customer Ref. No.: None				Bar. Pressure: 30.75					
Tested by: Rod Peloquin				Power: 5VDC		Job Site: EV06			
TEST SPECIFICATIONS									
Specification: 47 CFR 15.247(c)			Year: Most Current		Method: FCC 97-114, ANSI C63.4		Year: 1992		
SAMPLE CALCULATIONS									
COMMENTS									
None									
EUT OPERATING MODES									
modulation, low channel									
DEVIATIONS FROM TEST STANDARD									
None									
REQUIREMENTS									
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental									
RESULTS									
Pass									
SIGNATURE									
 Tested By: _____									
DESCRIPTION OF TEST									
Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz									



NORTHWEST EMC		EMISSIONS DATA SHEET		Transmitters Rev df11/13/02	
EUT:	PC24-11-FC/R			Work Order:	INMC0036
Serial Number:	02UT34371446			Date:	11/15/02
Customer:	INTERMEC Corporation			Temperature:	22 °C
Attendees:	None			Humidity:	45%
Customer Ref. No.:	None			Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC	Job Site:	EV06
TEST SPECIFICATIONS					
Specification:	47 CFR 15.247(c)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4
Year:		1992			
SAMPLE CALCULATIONS					
COMMENTS					
None					
EUT OPERATING MODES					
modulation, low channel					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
					
Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz					



EUT:	PC24-11-FC/R	Work Order:	INMC0036
Serial Number:	02UT34371446	Date:	11/15/02
Customer:	INTERMEC Corporation	Temperature:	22 °C
Attendees:	None	Humidity:	45%
Customer Ref. No.:	None	Bar. Pressure:	30.75
Tested by:	Rod Peloquin	Power:	5VDC
		Job Site:	EV06

TEST SPECIFICATIONS

Specification:	47 CFR 15.247(c)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4	Year:	1992
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SAMPLE CALCULATIONS

SAMPLE OBSERVATIONS	

COMMENTS

None

EUT OPERATING MODES

modulation, low channel

DEVIATIONS FROM TEST

DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

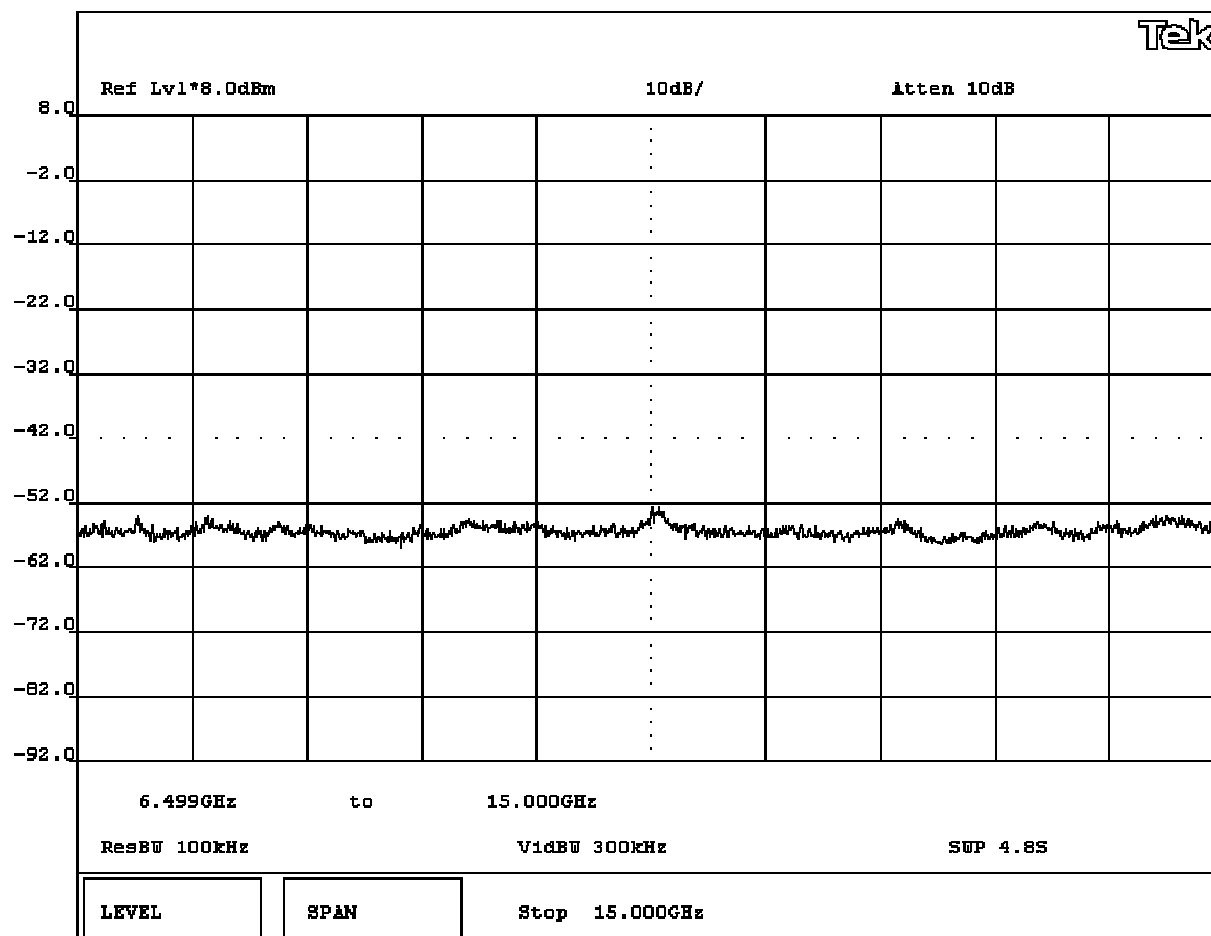
RESULTS
Pass


SIGNATURE

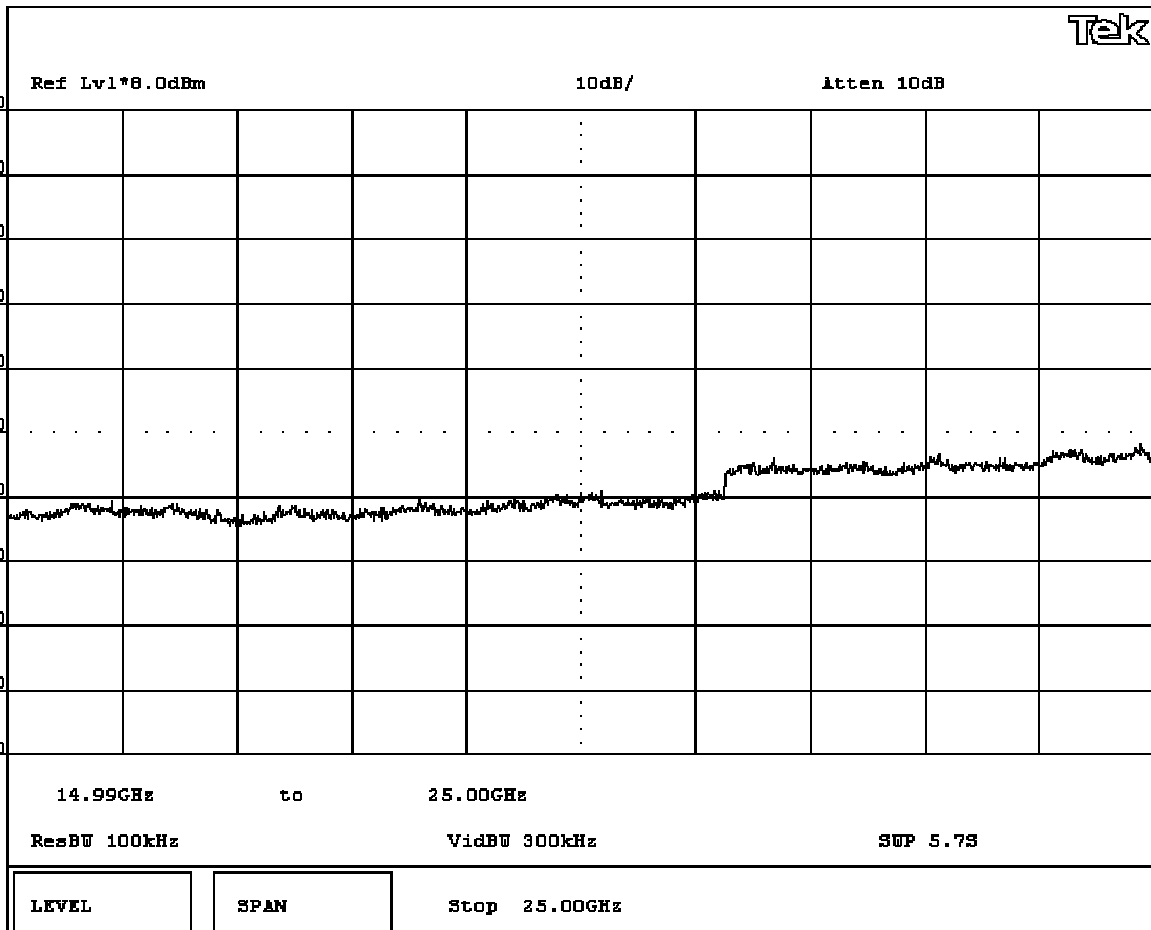
Tested By: Rocky L. Felling


DESCRIPTION OF TEST

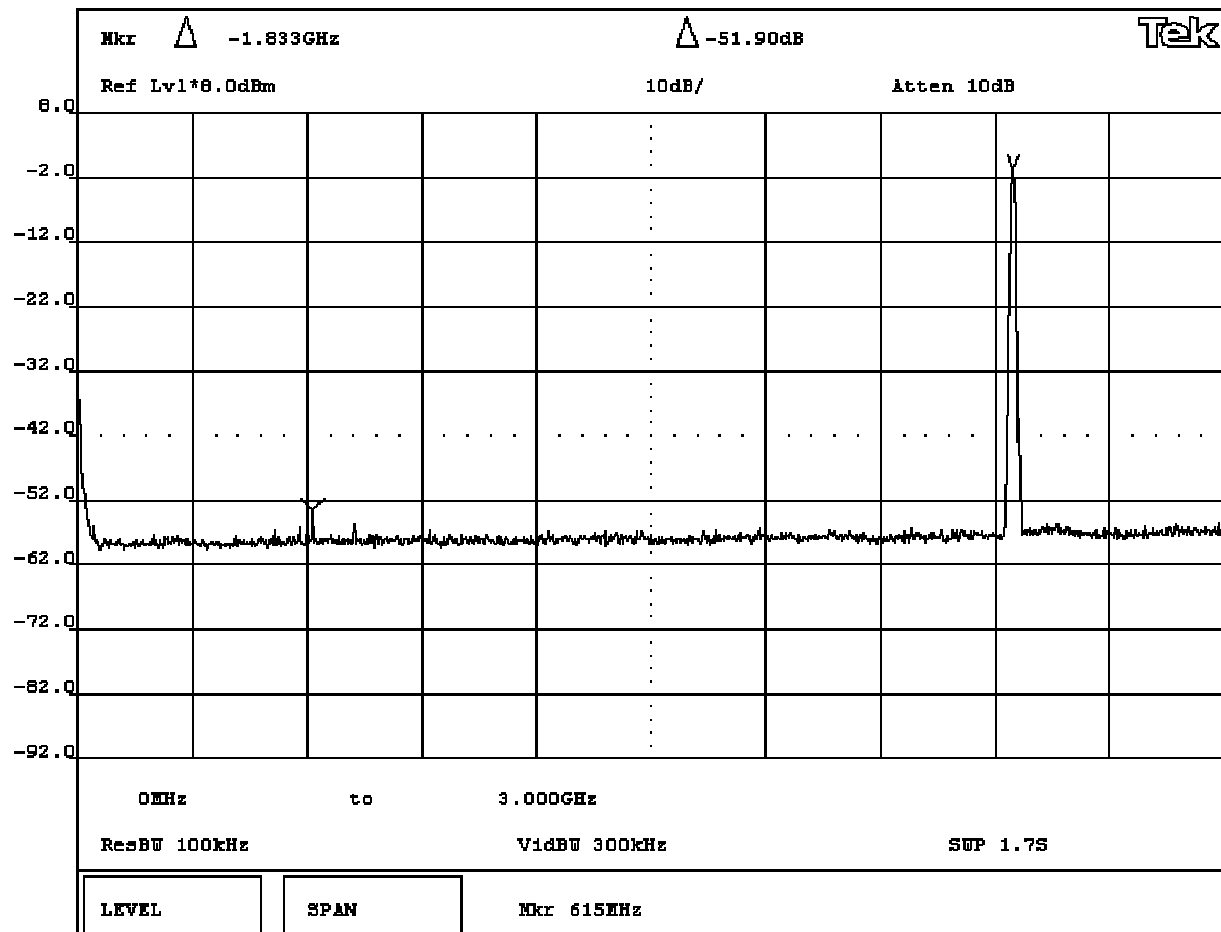
Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz




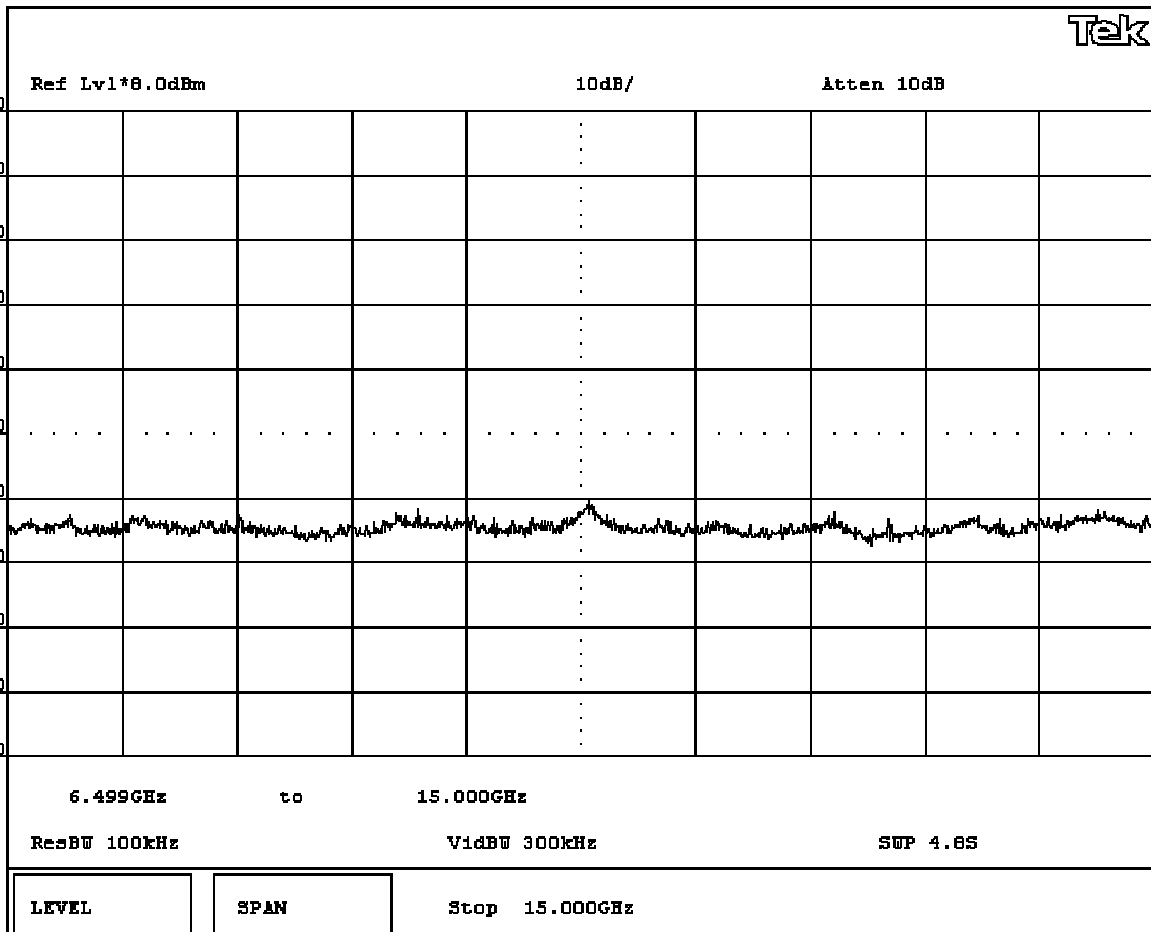
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EUT:		PC24-11-FC/R				Work Order:		INMC0036	
Serial Number:		02UT34371446				Date:		11/15/02	
Customer:		INTERMEC Corporation				Temperature:		22 °C	
Attendees:		None				Humidity:		45%	
Customer Ref. No.:		None				Bar. Pressure:		30.75	
Tested by:		Rod Peloquin		Power:		5VDC		Job Site:	
Job Site:		EV06							
TEST SPECIFICATIONS									
Specification:		47 CFR 15.247(c)		Year:		Most Current		Method:	
Method:		FCC 97-114, ANSI C63.4		Year:		1992			
SAMPLE CALCULATIONS									
COMMENTS									
None									
EUT OPERATING MODES									
modulation, low channel									
DEVIATIONS FROM TEST STANDARD									
None									
REQUIREMENTS									
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental									
RESULTS									
Pass									
SIGNATURE									
<div style="text-align: center;">  Tested By: _____ </div>									
DESCRIPTION OF TEST									
Antenna Conducted Spurious Emissions - Low Channel 15GHz-25GHz									




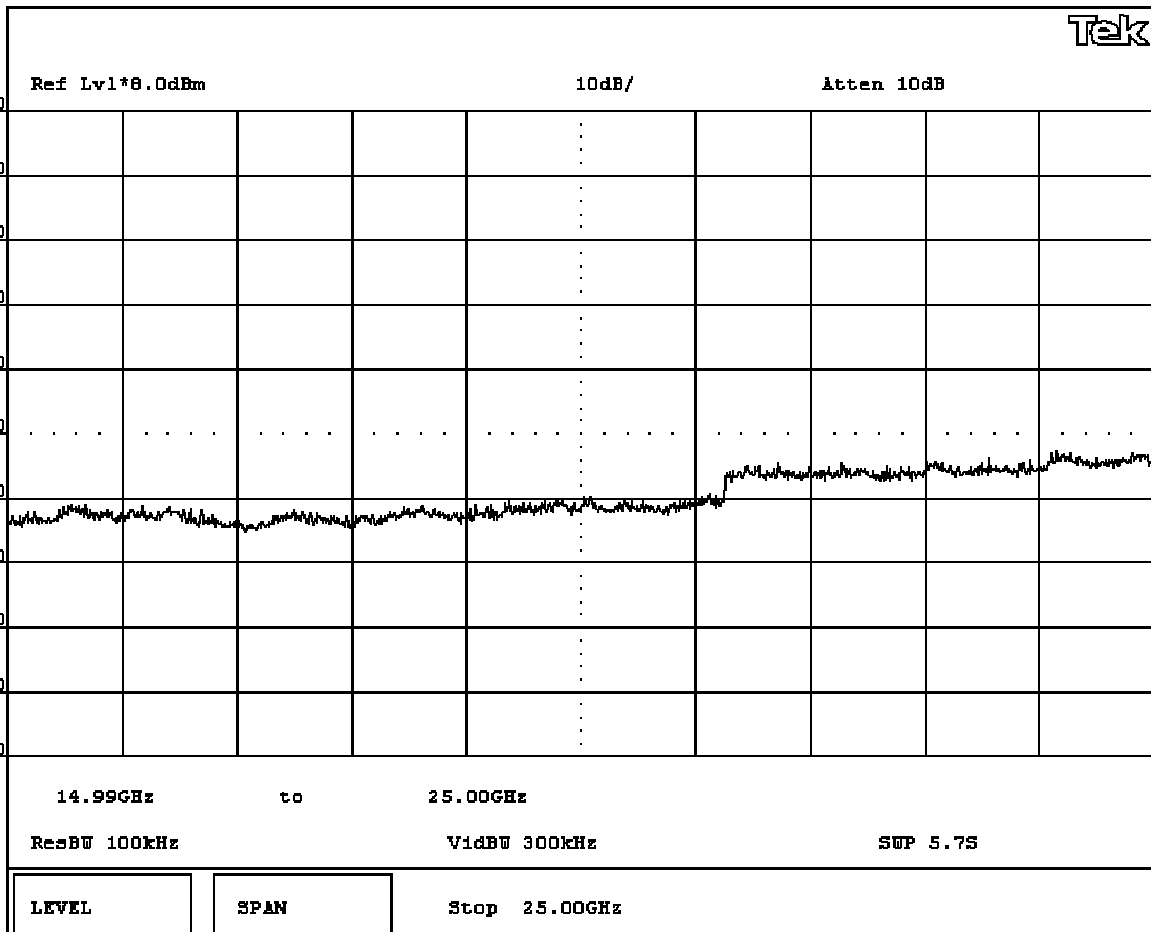
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EUT: PC24-11-FC/R				Work Order: INMC0036					
Serial Number: 02UT34371446				Date: 11/15/02					
Customer: INTERMEC Corporation				Temperature: 22 °C					
Attendees: None				Humidity: 45%					
Customer Ref. No.: None				Bar. Pressure: 30.75					
Tested by: Rod Peloquin				Power: 5VDC				Job Site: EV06	
TEST SPECIFICATIONS									
Specification: 47 CFR 15.247(c)		Year: Most Current		Method: FCC 97-114, ANSI C63.4		Year: 1992			
SAMPLE CALCULATIONS									
COMMENTS									
None									
EUT OPERATING MODES									
modulation, mid channel									
DEVIATIONS FROM TEST STANDARD									
None									
REQUIREMENTS									
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental									
RESULTS									
Pass									
SIGNATURE									
 Tested By: _____									
DESCRIPTION OF TEST									
Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz									




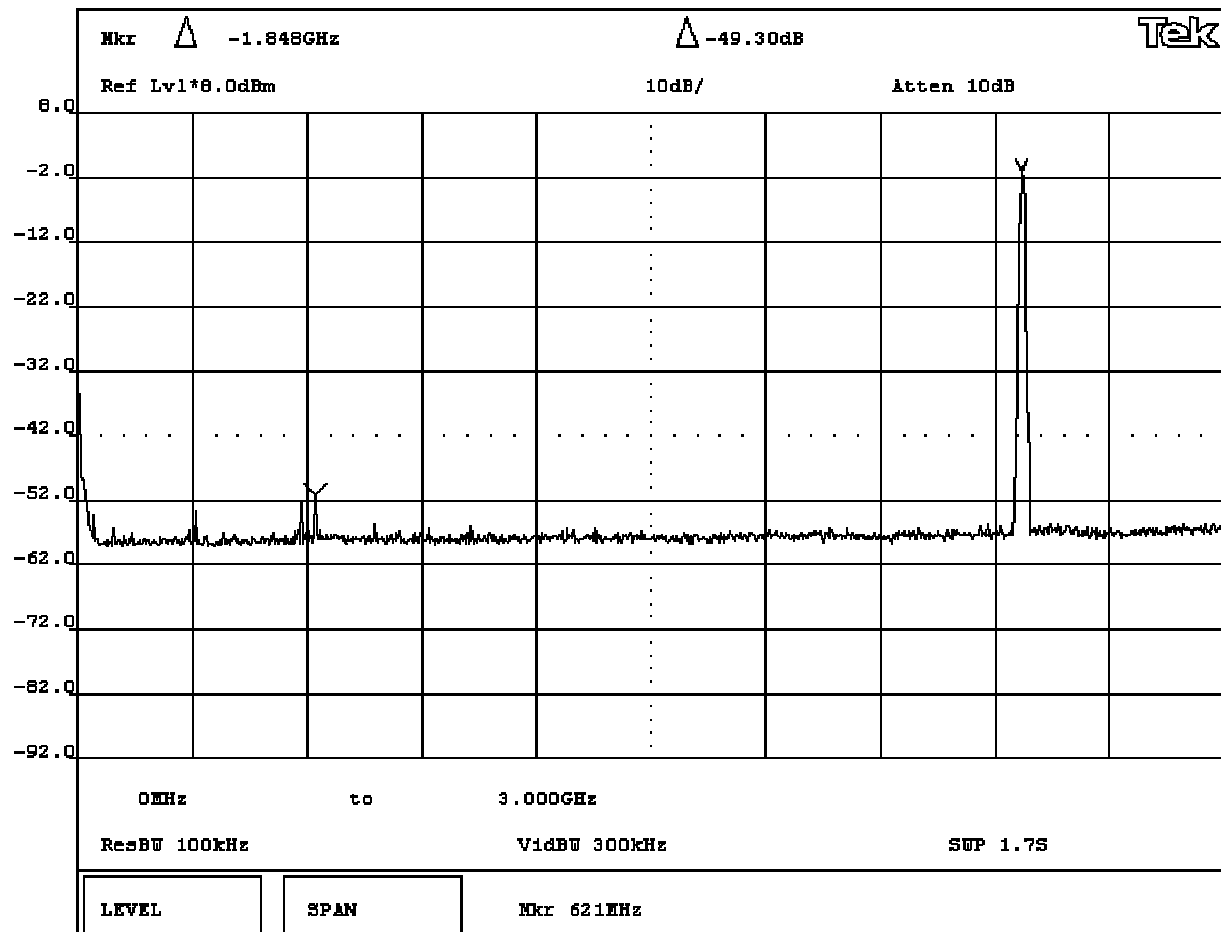
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EUT: PC24-11-FC/R				Work Order: INMC0036					
Serial Number: 02UT34371446				Date: 11/15/02					
Customer: INTERMEC Corporation				Temperature: 22 °C					
Attendees: None				Humidity: 45%					
Customer Ref. No.: None				Bar. Pressure: 30.75					
Tested by: Rod Peloquin				Power: 5VDC				Job Site: EV06	
TEST SPECIFICATIONS									
Specification: 47 CFR 15.247(c)		Year: Most Current		Method: FCC 97-114, ANSI C63.4		Year: 1992			
SAMPLE CALCULATIONS									
COMMENTS									
None									
EUT OPERATING MODES									
modulation, mid channel									
DEVIATIONS FROM TEST STANDARD									
None									
REQUIREMENTS									
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental									
RESULTS									
Pass									
SIGNATURE									
 Tested By: _____									
DESCRIPTION OF TEST									
Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz									




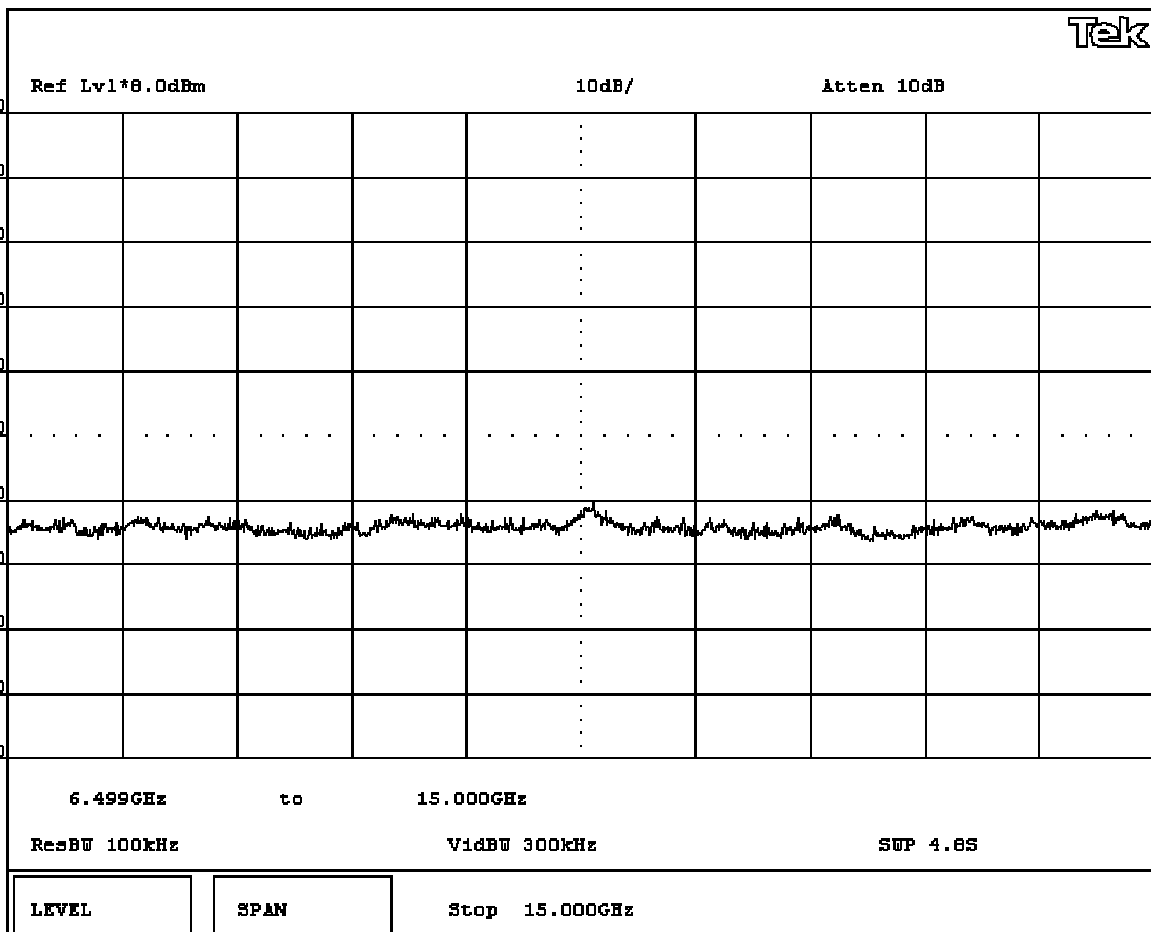
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EUT:		PC24-11-FC/R				Work Order:		INMC0036	
Serial Number:		02UT34371446				Date:		11/15/02	
Customer:		INTERMEC Corporation				Temperature:		22 °C	
Attendees:		None				Humidity:		45%	
Customer Ref. No.:		None				Bar. Pressure:		30.75	
Tested by:		Rod Peloquin		Power:		5VDC		Job Site:	
Job Site:		EV06							
TEST SPECIFICATIONS									
Specification:		47 CFR 15.247(c)		Year:		Most Current		Method:	
Method:		FCC 97-114, ANSI C63.4		Year:		1992			
SAMPLE CALCULATIONS									
COMMENTS									
None									
EUT OPERATING MODES									
modulation, mid channel									
DEVIATIONS FROM TEST STANDARD									
None									
REQUIREMENTS									
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental									
RESULTS									
Pass									
SIGNATURE									
<div style="text-align: center;">  Tested By: _____ </div>									
DESCRIPTION OF TEST									
Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz									




NORTHWEST EMC		EMISSIONS DATA SHEET		Transmitters Rev dfl1/13/02	
EUT:	PC24-11-FC/R			Work Order:	INMC0036
Serial Number:	02UT34371446			Date:	11/15/02
Customer:	INTERMEC Corporation			Temperature:	22 °C
Attendees:	None			Humidity:	45%
Customer Ref. No.:	None			Bar. Pressure:	30.75
Tested by:	Rod Peloquin		Power:	5VDC	Job Site:
TEST SPECIFICATIONS					
Specification:	47 CFR 15.247(c)	Year:	Most Current	Method:	FCC 97-114, ANSI C63.4
Year:		1992			
SAMPLE CALCULATIONS					
COMMENTS					
None					
EUT OPERATING MODES					
modulation, high channel					
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS					
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental					
RESULTS					
Pass					
SIGNATURE					
 Tested By: _____					
DESCRIPTION OF TEST					
Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz					



NORTHWEST EMC				EMISSIONS DATA SHEET				Transmitters Rev df11/13/02	
EUT: PC24-11-FC/R				Work Order: INMC0036					
Serial Number: 02UT34371446				Date: 11/15/02					
Customer: INTERMEC Corporation				Temperature: 22 °C					
Attendees: None				Humidity: 45%					
Customer Ref. No.: None				Bar. Pressure: 30.75					
Tested by: Rod Peloquin				Power: 5VDC				Job Site: EV06	
TEST SPECIFICATIONS									
Specification: 47 CFR 15.247(c)		Year: Most Current		Method: FCC 97-114, ANSI C63.4		Year: 1992			
SAMPLE CALCULATIONS									
COMMENTS									
None									
EUT OPERATING MODES									
modulation, high channel									
DEVIATIONS FROM TEST STANDARD									
None									
REQUIREMENTS									
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental									
RESULTS									
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SIGNATURE									
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DESCRIPTION OF TEST									
Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz									



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SAMPLE CALCULATIONS									
COMMENTS									
None									
EUT OPERATING MODES									
modulation, high channel									
DEVIATIONS FROM TEST STANDARD									
None									
REQUIREMENTS									
Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental									
RESULTS									
Pass									
SIGNATURE									
 Tested By: _____									
DESCRIPTION OF TEST									
Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz									

